

ROCKY FLATS PLANT  
EMD OPERATING  
PROCEDURES MANUAL

Manual No.. 5-21000-OPS-GT  
Procedure No.. Table of Contents, Rev 20  
Page 1 of 2  
Effective Date: 06/04/92  
Organization: Environmental Management

THIS IS ONE VOLUME OF A SIX VOLUME SET  
WHICH INCLUDES.

VOLUME I: FIELD OPERATIONS (FO)  
VOLUME II: GROUNDWATER (GW)  
VOLUME III: GEOTECHNICAL (GT)  
VOLUME IV: SURFACE WATER (SW)  
VOLUME V: ECOLOGY (EE)  
VOLUME VI: AIR (AP)

TABLE OF CONTENTS  
FOR VOLUME III: GEOTECHNICAL

<u>Procedure No.</u>	<u>Title</u>	<u>Rev. No.</u>	<u>Effective Date</u>
GT 01	Logging Alluvial and Bedrock Material	2	05/12/92
GT 02	Drilling and Sampling Using Hollow Stem Auger Techniques	2	05/12/92
GT 03	Isolating Bedrock from Alluvium with Grouted Surface Casing	2	05/12/92
DCN 92 03	Alternate Method of Installing Surface Casing	2	06/04/92
GT 04	Rotary Drilling and Rock Coring	2	05/12/92
GT 05	Plugging and Abandonment of Boreholes	2	05/12/92
GT 06	Monitoring Wells and Piezometer Installation	2	05/12/92
DCN 92 05	Schematic Diagram Land Fill Methane Wells	2	06/04/92
GT 07	Logging and Sampling of Test Pits and Trenches	2	05/12/92
GT 08	Surface Soil Sampling	2	05/12/92
GT 09	Soil Gas Sampling and Field Analysis	2	05/12/92

ADMIN RECORD

REVIEWED FOR CLASSIFICATION/UCNI

By [Signature]  
Date June 11, 1992

**ROCKY FLATS PLANT  
EMD OPERATING  
PROCEDURES MANUAL**

**Manual No.: 5-21000-OPS-GT**  
**Procedure No.: Table of Contents, Rev 20**  
**Page: 2 of 2**  
**Effective Date: 06/04/92**  
**Organization: Environmental Management**

<b><u>Procedure No.</u></b>	<b><u>Title</u></b>	<b><u>Rev No.</u></b>	<b><u>Effective Date</u></b>
GT 10	Borehole Clearing	2	05/12/92
GT 11	Plugging and Abandonment of Wells	2	05/12/92
GT 15	Geophysical Borehole Logging	2	05/12/92
GT 17	Land Surveying	2	05/12/92
GT 18	Surface Geophysical Surveys	2	05/12/92
GT 19	Field Gas Chromatographs	2	05/12/92
GT 20	Procedures for Soil Interstitial Water Sampling and Sampler Installation	2	05/12/92
GT 21	Cone Penetrometer Testing	1	05/12/92
GT 24	Approval Process for Construction Activities on or Near Individual Hazardous Substance Sites (IHSSs)	0	05/12/92

# DOCUMENT CHANGE NOTICE (DCN)

This is a  
**CONTROLLED DOCUMENT**

EG&G ROCKY FLATS PLANT  
Procedure Number 5-21000-OPS-GT 3 Rev 2  
ENVIRONMENTAL MANAGEMENT

Page 1 of 1

This is a RED Stamp

Title <b>Surface Casing Installation and Sealing Procedures</b>	Date <b>June 3, 1992</b>	DCN Number <b>5-21000-OPS- GT.03, R2 DCN 92.03</b>
Expires <u><b>9-3-92</b></u> Procedure Revision Required <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Scope Limitation <u><b>none</b></u>		

Item Number	Page	Step or Paragraph	Changes (Use DCN CONTINUATION SHEET for Additional Space)
1	9 of 10	5 3	When the length of the surface casing to be installed exceeds 40 feet, the grout mixture may be emplaced in the annular space between the augers or drill casing and the surface casing Upon removal of each section of auger or drill casing, additional grout is continuously added to the annulus. The grout will be emplaced by means of a tremie pipe if the annulus contains water Any grout that enters the surface casing will be displaced by a grout plug as specified in step 5 of section 5 3, GT.3

Justification (Reason for change – Provide numbers to reference corresponding items above)

1. When bridging and excessive slough is anticipated, removing the augers (or drill casing) prior to pumping the grout mixture into the annulus will result in poor seal between the surface casing and the wall of the borehole

Concurrence	Organization	Req	Date	Concurrence	Organization	Req	Date
<i>[Signature]</i>	QAPM	X	6/5/92	<i>T.P. Longest</i>	User	X	6/3/92
<i>[Signature]</i>	EOM	X	6/4/92	<i>E.A. Dille</i>	User	X	6/5/92

Approval of Responsible Manager <i>[Signature]</i>	Date <b>30 Jun 92</b>	Is Posting Req'd? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If Yes, By What Date?	Date Posted
---	--------------------------	--	-----------------------	-------------

Procedure Number 5-21000-OPS-GT 6 Rev 12

Page 1 of 1

Approval of Responsible Manager	Date	Is Posting Req'd?	If Yes, By What Date?	Date Posted
<i>R. Smith, Jr. for W. P. R. Jr.</i>	<i>6/4/92</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

# Schematic Diagram

## LANDFILL METHANE WELLS

